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FILE LAST UPDATED: 9 Jul 2003 (20030709/ED)
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     1992:83328 HCAPLUS Full-text
     116:83328
    A novel class of enkephalinase inhibitors containing a C-terminal sulfo
    Mimura, Tetsutaro; Nakamura, Yasuhisa; Nishino, Junko; Sawayama, Tadahiro;
ΑU
     Komiya, Toshio; Deguchi, Takashi; Kita, Atsuko; Nakamura, Hideo;
     Matsumoto, Junichi
     Res. Lab., Dainippon Pharm. Co., Ltd., Suita, 564, Japan
CS
     Journal of Medicinal Chemistry (1992), 35(3), 602-8
     CODEN: JMCMAR; ISSN: 0022-2623
DT
     Journal
T,A
     English
     25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
CC
     Section cross-reference(s): 1
     CASREACT 116:83328
OS
     A series of \beta-aryl-N-(sulfoalkyl)-\alpha-(thiomethyl)propionamides and \beta-aryl-N-
AB
      (sulfoaryl)-\alpha-(thiomethyl)propionamides were prepd. and tested as
     enkephalinase and angiotensin-converting enzyme inhibitors. The
      enkephalinase-inhibiting activity (IC50) of \beta-phenyl-(3-sulfophenyl)-\alpha-
      (thiomethyl)propionamide was 0.27 nM; several analogs had an IC comparable
      to thiorphan. \beta-Phenyl-(2-sulfoethyl)-\alpha-(thiomethyl)propionamide was tested
      for analgesic activity.
     arylsulfoalkylthiomethyl propionamide enkephalinase inhibitor;
     propionamide arylsulfoalkylthiomethyl enkephalinase inhibitor;
     enkephalinase inhibitor arylsulfoalkylthiomethyl propionamide; angiotensin
     converting enzyme arylsulfoalkylthiomethyl propionamide; analgesic
     arylsulfoalkylthiomethyl propionamide; phenylsulfoethylthiomethyl
     propionamide analgesic
     Analgesics
\mathbf{T}
         (aryl(thiomethyl)-N-(sulfoalkyl)propionamides as)
     Molecular structure-biological activity relationship
IT
         (enkephalin dipeptidyl carboxypeptidase-inhibiting, of
         (aryl(thiomethyl)-N-(sulfoalkyl)propionamides as)
IT
     Enzymes
     RL: USES (Uses)
         (enkephalin-degrading, inhibitors, aryl(thiomethyl)-N-
         (sulfoalkyl)propionamides as)
     105-53-3, Diethyl malonate
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (alkylation of, with aryl bromides or iso-Pr bromide, conversion to
        acrylic acid deriv., and sequential condensation with thioacetic acid
         of)
                                                  100-39-0, Benzyl bromide
                100-11-8, 4-Nitrobenzyl bromide
      78-77-3
IT
                                        402-49-3, 4-(Trifluoromethyl)benzyl
      104-81-4, 4-Methylbenzyl bromide
                459-46-1, 4-Fluorobenzyl bromide 637-59-2
      bromide
      3163-27-7
      RL: RCT (Reactant); RACT (Reactant or reagent)
         (alkylation with, of di-Et malonate)
                                                  70025-49-9
      9015-82-1, Angiotensin-converting enzyme
 IT
      RL: USES (Uses)
         (inhibitors, (arylmethyl)(thiomethyl)-N-(sulfoalkyl)propionamides as)
 IT
      58353-47-2P
      RL: SPN (Synthetic preparation); PREP (Preparation)
         (prepn. and conversion of, to (acetylthio)(aminobenzyl)propionic acid)
                                                                   116112-13-1P
                                                    116112-04-0P
                     116111-88-7P
                                    116111-90-1P
 IT
      116111-78-5P
                                                                   116112-22-2P
                                                    116112-21-1P
                     116112-18-6P
                                    116112-19-7P
      116112-14-2P
                                                                   116112-29-9P
                                                    116112-26-6P
                     116112-24-4P
                                    116112-25-5P
      116112-23-3P
                                                                   116112-37-9P
                                                    116112-36-8P
                     116112-33-5P
                                    116112-34-6P
      116112-32-4P
```

116112-41-5P

126795-60-6P

138063-15-7P

116112-39-1P

126772-46-1P

138063-02-2P

116112-38-0P

126772-44-9P

138063-01-1P

126772-42-7P

138063-00-0P

138063-18-0P

126772-38-1P

138062-99-4P

138063-17-9P

```
138063-19-1P 138063-22-6P
                                  138063-27-1P
                                                 138063-29-3P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and deacetylation of)
                  82154-12-9P 115355-28-7P
                                              116112-43-7P
     76789-49-6P
                                                                 123829-77-6P
                   116112-47-1P
                                 116112-48-2P
                                                 116112-49-3P
     116112-46-0P
                   138062-89-2P 138062-93-8P
     123986-61-8P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. and resoln. and conversion of, to aryl-N-
        (sulfoalkyl)(thiomethyl)propionamide)
     91702-98-6P
TΤ
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. and resoln. and conversion of, to phenyl-N-
        (sulfoalkyl)(thiomethyl)propionamide)
                  124815-67-4P 138062-84-7P
     116111-79-6P
IT
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of)
                                                  116112-09-5P
                                                                 116112-11-9P
                                   116112-08-4P
     116111-85-4P
                    116112-03-9P
IT
     138063-30-6P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, as enkephalinase and angiotensin-converting enzyme
        inhibitor)
     116111-86-5P
IT
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, as enkephalinase and angiotensin-converting enzyme
        inhibitor and analgesic)
                                                                 116111-94-5P
                                   116111-92-3P
                                                  116111-93-4P
                   116111-91-2P
     116111-82-1P
ΙT
                                                  116112-01-7P
                                                                 116112-05-1P
                                   116112-00-6P
                    116111-98-9P
     116111-97-8P
                                                                 126772-39-2P
                                                  126772-36-9P
                    116112-10-8P
                                   116155-52-3P
     116112-06-2P
                                                                 138063-35-1P
                                                  138063-34-0P
                                   126772-47-2P
                    126772-45-0P
     126772-43-8P
                                                                 138063-53-3P
                                                  138063-50-0P
                                   138063-41-9P
                    138063-37-3P
     138063-36-2P
                                                                 138063-64-6P
                                                  138063-62-4P
                                   138063-57-7P
                    138063-56-6P
     138063-54-4P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, as enkephalinase inhibitor)
     107-35-7, Taurine 121-57-3, Sulfanilic acid
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with (acetylthio)benzylpropionic acid)
     507-09-5, Thioacetic acid, reactions
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with acrylic acid derivs.)
     100-10-7, 4-(Dimethylamino)benzaldehyde 123-11-5, 4-Methoxybenzaldehyde,
IT
                500-22-1, 3-Pyridinecarboxaldehyde 37924-85-9
     reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with di-Et malonate)
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RN 138062-93-8 REGISTRY

CN 1,2-Benzisoxazole-3-propanoic acid,  $\alpha$ -[(acetylthio)methyl]-, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2-Benzisoxazole-3-propanoic acid,  $\alpha$ -[(acetylthio)methyl]-, sodium salt, (±)-

MF C13 H13 N O4 S . Na

SR CA

LC STN Files: CA, CAPLUS

CRN (126772-53-0)

Na

- 1 REFERENCES IN FILE CA (1957 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2003 ACS

RN 123986-61-8 REGISTRY

CN 3-Pyridinepropanoic acid,  $\alpha$ -[(acetylthio)methyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(Acetylthiomethyl)-3-(3-pyridinyl)propionic acid

FS 3D CONCORD

DR 138062-92-7

MF C11 H13 N O3 S

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, USPATFULL (\*File contains numerically searchable property data)

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- 6 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2003 ACS

RN 115355-28-7 REGISTRY

CN 1-Naphthalenepropanoic acid,  $\alpha$ -[(acetylthio)methyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-(Acetylthiomethyl)-3-(1-naphthyl)propionic acid

FS 3D CONCORD

DR 138062-91-6

MF C16 H16 O3 S

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, USPATFULL

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